

From: Apakian, Mary
To: [Geiger, William](#)
Cc: [Bond, Christopher D.](#)
Subject: Metal Bank Oversight Summary - May 10, 2016
Date: Wednesday, May 11, 2016 8:02:48 AM

Hi Will.

Below the summary of OS activities conducted by CDM Smith's Chris Bond on Tuesday, May 10, 2016. Chris Bond will be out at the site today to oversee the continuation of the rip rap placement. Are you planning to visit today?

Please let me know if you have any questions.

Regards,

Mary Jo

Mary Jo Apakian | Project Manager | CDM Smith | 993 Old Eagle School Road, Suite 408 | Wayne, PA 19087 | Office: 610-263-2616 | Fax: 610-293-1920 | Mobile: 610-246-1832 | e-mail: apakianmj@cdmsmith.com

Date: May 10, 2016

Weather: Periodic Light Rain, Overcast, High of 59 degrees

Arrival/Departure Time: 700/1505

CDM Smith Field Oversight: Christopher Bond

- Other Personnel Onsite:
 - June Yeung – Ramboll Environ
 - John Castellani – CEI
- Turbidity Monitoring: At 0800 hours, CEI performed an inspection of the turbidity curtain that was placed around the perimeter of Zone 1 yesterday. In addition, any deficiencies in the curtain placement were repaired. CEI performed the initial turbidity monitoring in 4 locations along the curtain at 0800 hours. A second round of monitoring (prior to the placement of rip rap) was collected at 1130 hours; the monitoring results were less than the initial results collected at 0800 hours. After two (2) hours of rip rap placement, the turbidity was monitored again (1400 hours). The results are listed in the table below. Chris will confirm turbidity monitoring locations with CEI tomorrow.

Time (hours):	0800	1130	1400
Up Tide (NTU) :	331.19	281.7	238.5
Down Tide (NTU):	281.6	231.4	196.27
Intermediate Up Tide (NTU):	397.26	276.50	182.6
Intermediate Down Tide (NTU):	363.4	190.73	N/A – Low Tide Prevented Access

- Rip Rap Placement: Beginning at 1200 (noon) during low tide, CEI began placing rip rap in the western part of Zone 1.
- Sheet Pile Wall Monitoring: CEI reports that the baseline data collected yesterday by Weber is expected to arrive tomorrow.
- Deviations from the Design Plans/ Specifications: CEI had indicated on their submittal that they would be marking the arm of the excavator or crane to aid the operator in knowing the location of the bucket during rip rap placement, instead they utilized a spotter at the edge of the sheet pile wall to direct the excavator operator. Also, instead of a clam shell bucket, CEI

is using an extra wide excavator bucket for placement of the rip rap.

- Bathymetric Survey: John Castellani indicated that the data from the bathymetric survey was sent to the surveyor at CEI, and that he expects the data package to be delivered tomorrow.
- Work planned to be conducted tomorrow: CEI will continue rip rap placement throughout Zone 1.

From: Apakian, Mary

Sent: Monday, May 09, 2016 5:38 PM

To: Geiger.william@Epa.gov

Cc: Bond, Christopher D.

Subject: Metal Bank Oversight Summary - May 9, 2016 - Part 1 of 3

Hi Will.

Attached is the summary of OS activities conducted by CDM Smith's Chris Bond today. Chris Bond will be out at the site tomorrow am to oversee the start of the rip rap placement. Aqua Survey completed the bathymetric survey this afternoon and June Yeung, Ramboll Environ, reported that results will be available for use tomorrow. I am sending the photos in two separate emails since they are large.

Please let me know if you have any questions.

Regards,

Mary Jo

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apakianmj@cdmsmith.com

Date: May 9, 2016

Weather: Sunny, High of 70 degrees

Arrival/Departure Time: 700/1500

CDM Smith Field Oversight: Christopher Bond

- Other Personnel Onsite:
 - June Yeung – Ramboll Environ
 - John Castellani – CEI
 - Gary Kowalski – CEI
 - Donald Weiss – Weber
 - Eric Babcock – Weber
- Activities that occurred last week: June Yeung, Ramboll Environ, reported that during the week of May 2, 2016, CEI laid out the timber road (Reese Mats), installed the site trailer, and laid out two (2) 6" crushed stone pads for the rip rap stockpiles while Aqua Survey performed the bathymetric survey. See Pictures: 045_050916_01, 045_050916_03, 045_050916_05, and 045_050916_07.
- Bathymetric Survey: On Thursday, May 5, 2016, Aqua Survey conducted a bathymetric survey of all three zones where rip rap is to be placed along the sheet pile wall located in the Southern Area of the Metal Bank Site (the Site). This morning, Aqua Survey reported that the survey results were unusable. Aqua Survey returned to the site this afternoon and completed the survey.
- Turbidity Monitoring: CEI placed the turbidity curtain along the perimeter of Zone 1. No turbidity monitoring occurred as no rip rap was placed today.
- Sheet Pile Wall Monitoring: Weber was onsite performing the baseline survey of the sheet pile wall. The survey included the installation of eighteen (18) survey targets along to the length

of the wall that will be used to monitor any future wall movement.

- Deviations from the Design Plans/ Specifications: The surveying targets that were installed were not the triangular prisms indicated within Submittal 9. A picture (045_050916_08) showing both the new installed targets (left) and the prism listed in the spec sheet (right) is attached.
- Work planned to be conducted tomorrow: Once CEI receives usable bathymetric survey data from Aqua Survey, they will begin placing rip rap within Zone1.